

Figure 1

Bcl-2 (N-19)

Bcl2 α	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α 591	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α 588	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α 480	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α 633	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
Bcl2 β	atg	gog	cac	gct	ggg	aga	aca	ggg	tac	gag	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β 489	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β 474	atg	gog	cac	gct	ggg	aga	aca	ggg	tac	gac	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β 420	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β 315	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
BCL-2 (AB-2)																					

BH4

Bcl2 α	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	gcg	ccc	ccg	120
α 591	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111
α 588	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111
α 480	tat	aag	ctg	tcg	cag	agg	ggc	tac	---	---	---	---	---	---	---	---	---	---	---	---	84
α 633	tat	aag	ctg	tcg	cag	agg	ggc	gac	gag	tgg	gtc	gag	acc	aga	acg	gcc	ttt	cca	agg	gcg	120
Bcl2 β	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	gcg	ccc	ccg	120
β 489	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111
β 474	tat	aag	ctg	tcg	cag	agg	ggc	gac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	120
β 420	tat	aag	ctg	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	69
β 315	tat	aag	ctg	tcg	cag	agg	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78
BCL-2 (Ab-1)																					

BH4

Bcl2 α	ggg	gcc	gcc	ccc	gcg	ccg	ggc	atc	ttc	tcc	tcg	cag	ccc	ggg	cac	acg	ccc	cat	aca	gcc	180
α 591	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α 588	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α 480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84
α 633	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	156
Bcl2 β	ggg	gcc	gcc	ccc	gca	ccg	ggc	atc	ttc	tcc	tcg	cag	ccc	ggg	cac	acg	ccc	cat	gca	gcc	180
β 489	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
β 474	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	120
β 420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	69
β 315	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78
Bcl-2 (Ab-4)																					

Bcl-2(BD), Bcl-2(C-2)

Bcl2 α	gca	tcc	cgg	gac	ccg	gtc	gcc	agg	acc	tcc	tcg	cag	acc	ccc	ggc	gcc	ccc	ggc	ccc	ccg	240
α 591	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α 588	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α 480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84
α 633	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	156
Bcl2 β	gca	tcc	cgg	gac	ccg	gtc	gcc	agg	acc	tcc	tcg	cag	acc	ccc	ggc	gcc	ccc	ggc	ccc	ccg	240
β 489	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
β 474	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	120
β 420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	69
β 315	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78
Bcl-2(BD), Bcl-2(C-2)																					

BH1

Bcl2α	gac gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agg cag ctg cac	360
α591	gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	231
α588	gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	228
α480	---	---	---
α633	gac gac ttc tcc cgc cgc	---	---
Bcl2β	gac gac ttc tcc cgc cgc	tac cgc ggc gac ttc gcc gag atg tcc agc cag ctg cac	360
β489	gac gac ttc tcc cgc cgc	tac cgc ggc gac ttc gcc gag atg tcc agc cag ctg cac	231
β474	gac gac ttc tcc cgc cgc	tac cgc ggc gac ttc gcc gag atg tcc agc cag ctg cac	216
β420	gac gac ttc tcc cgc cgc	tac cgc ggc gac ttc gcc gag atg tcc agc cag ctg cac	162
β315	---	---	78

BH1

Bcl2α	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
α591	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
α588	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	288
α480	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	180
α633	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	333
Bcl2β	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
β489	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
β474	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	276
β420	ctg acg ccc ttc acc ggg cgg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	222
β315	---	gag ctc ttc agg gac	117

BH2

Bcl2α	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
α591	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
α588	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	348
α480	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	240
α633	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	393
Bcl2β	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
β489	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
β474	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	336
β420	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	282
β315	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	177

BH2

Bcl2α	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	540
α591	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	411
α588	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	408
α480	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	300
α633	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	453
Bcl2β	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	540
β489	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	411
β474	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	396
β420	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	342
β315	agc gtc aac cgg gag atg tcc ccc ctg gtg gac aac atc gac ctg tgg atg act gag tac	237

BH2

Bcl2α	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	585
α591	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	456
α588	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	453
α480	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	345
α633	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	498
Bcl2β	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	600		
β489	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	471		
β474	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	456		
β420	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	402		
β315	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gta ggt gca tct ggt	297		

BH3

Bcl2α	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	627
α591	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	498
α588	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	495
α480	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	387
α633	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	540
Bcl2β	gat gtg agt ctg ggc tga	gac ccc agc atg cgg cct ctg	618	
β489	gat gtg agt ctg ggc tga		489	
β474	gat gtg agt ctg ggc tga		474	
β420	gat gtg agt ctg ggc tga		420	
β315	gat gtg agt ctg ggc tga		315	

Bcl2α ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 687
α591 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 558
α588 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 555
α480 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 447
α633 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 600

Bcl2α atc acc ctg ggt gcc tat ctg ggc cac aag tga 720
α591 atc acc ctg ggt gcc tat ctg ggc cac aag tga 591
α588 atc acc ctg ggt gcc tat ctg ggc cac aag tga 588
α480 atc acc ctg ggt gcc tat ctg ggc cac aag tga 480
α633 atc acc ctg ggt gcc tat ctg ggc cac aag tga 633

Figure 2

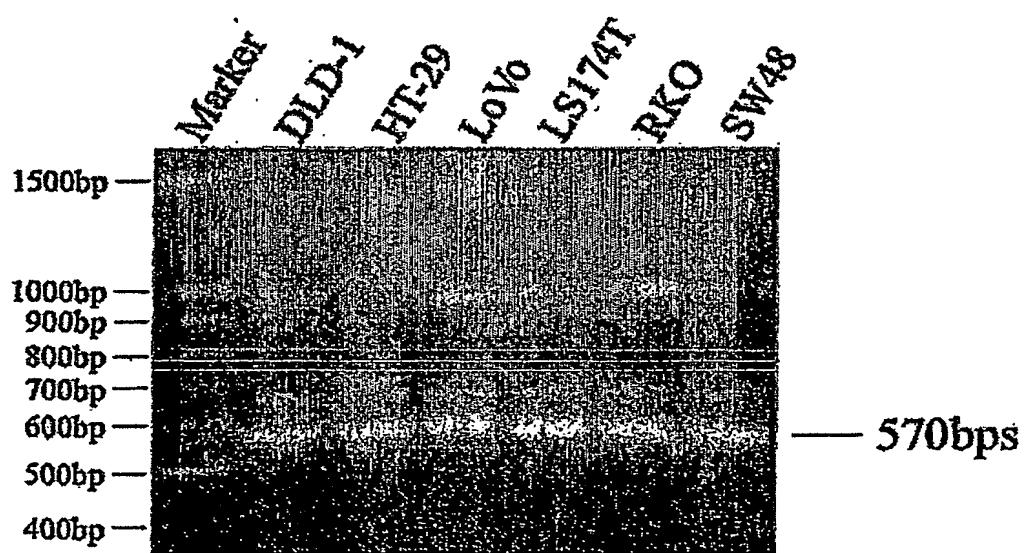
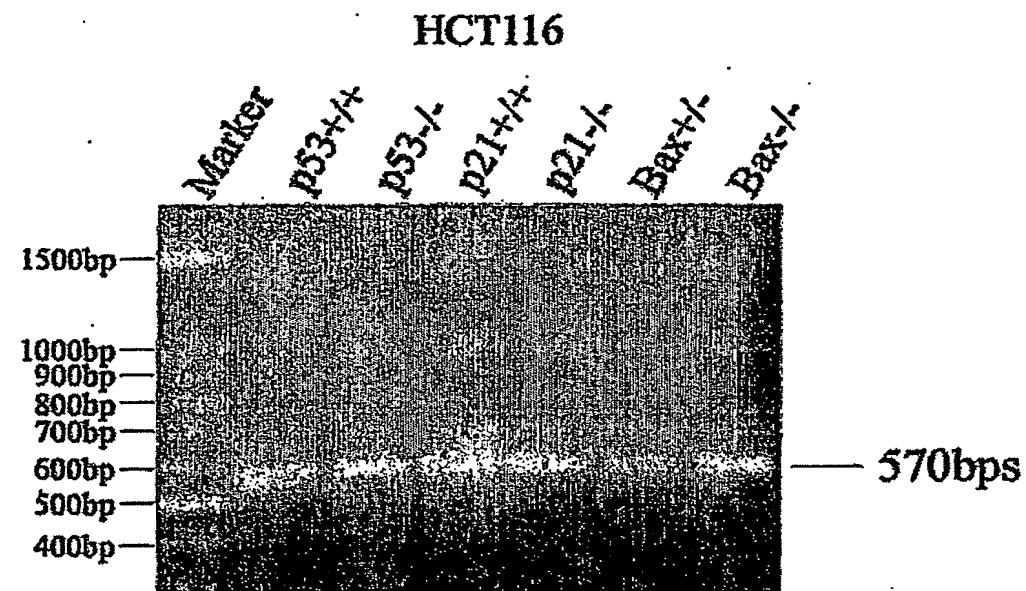


FIGURE 3

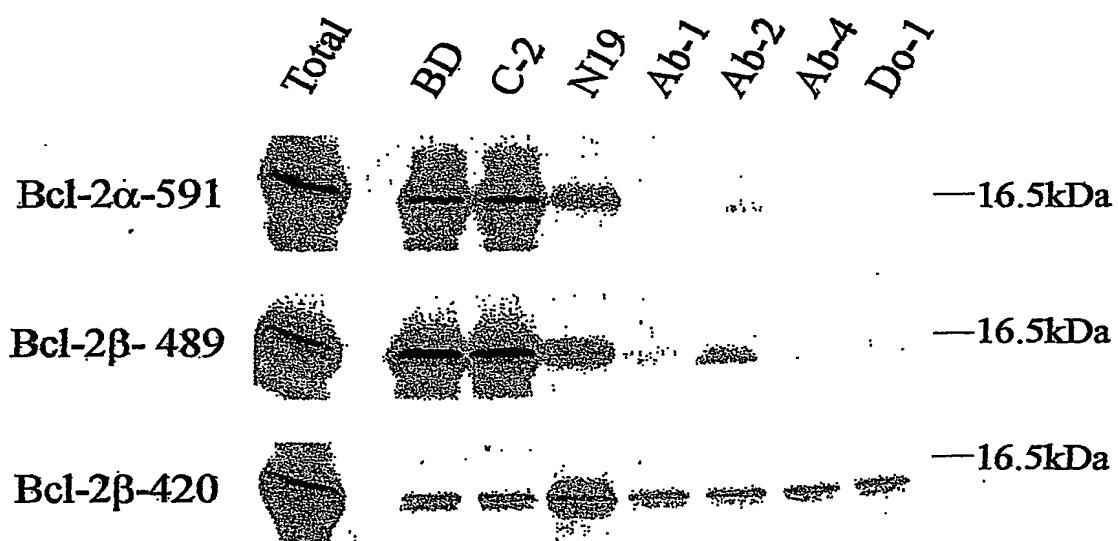


Figure 4

	HCT	HCT p53-/-	HCT Bax+/-	HCT Bax-/-	HCT p21+/-	HCT p21+/+	RKO	LoVo	LS174T	SW48
α591	Φ	Φ	Φ	Φ	Φ			Φ		Φ
α588					Φ					
α480						Φ				
α633						Φ				
β489			Φ							
β474							Φ			
β420						Φ				
β315							Φ			

FIGURE 5 ;

